## RARE-01. CEREBRAL INFARCTION IN CHILDHOOD

ONSET CRANIOPHARYNGIOMA PATIENTS: RESULTS OF

## KRANIOPHARYNGEOM 2007

Svenja Boekhoff ${ }^{1}$, Brigitte Bison ${ }^{2}$, Maria Eveslage ${ }^{3}$, Carsten Friedrich ${ }^{1}$, Jörg Flitsch ${ }^{4}$, Hermann L. Müller ${ }^{1}$, ${ }^{1}$ Dept. of Pediatrics and Pediatric Hematology/Oncology, University Chilrdren's Hospital, Klinikum Oldenburg AöR, Oldenburg, Germany. ${ }^{2}$ Dept. of Neuroradiology, University of Augsburg, Augsburg, Germany. ${ }^{3}$ Institute of Biostatistics and Clinical Research, University of Münster, Münster, Germany. ${ }^{4}$ Dept. of Neurosurgery, University Hospital UKE, Hamburg, Germany

BACKGROUND: Cerebral infarction (CI) is a known vascular complication following treatment of suprasellar tumors. Risk factors for CI , incidence rate, and long-term prognosis are unknown for patients with childhoodonset craniopharyngioma (CP). METHODS: MRI of 244 CP patients, recruited between 2007 and 2019 in KRANIOPHA-RYNGEOM 2007, were reviewed for CI. Risk factors for CI and outcome after CI were analyzed. RESULTS: Twenty-eight of 244 patients ( $11 \%$ ) presented with CI based on reference assessment of MRI. One CI occurred before initial surgery and one case of CI occurred after release of intracystic pressure by a cyst catheter. 26 of 28 CI were detected after surgical tumor resection at a median postoperative interval of one day (range: 0.5-53 days). Vascular lesions during surgical procedures were documented in 7 cases with CI. No relevant differences with regard to surgical approaches were found. In all 12 irradiated patients, CI occurred before irradiation. Multivariable analyses showed that hydrocephalus and gross-total resection at the time of primary diagnosis / surgery both were risk factors for CI. After CI, quality of life (PEDQOL) and functional capacity (FMH) were impaired. CONCLUSIONS: CI occurs in $11 \%$ of surgically-treated CP cases. Degree of resection and increased intracranial pressure are risk factors, which should be considered in the planning of surgical procedures for prevention of CI.

